



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Name SHE TECHNO LABORATORY PVT LTD, #122(29/1),1ST FLOOR, MAIN INDUSTRIAL TOWN, RAJAJINAGAR, BENGALURU, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-5494 Page No. : 1 / 12

Validity 24/04/2019 to 23/04/2021 Last Amended on -

S.No	Discipline / Group	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing/ Limits of Detection
Permanent Facility					
1	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ammonia as NH ₃	SHE/SOP/08 Issue No/ Date : 01/01.11.2018: By CPCB GUIDELINES	10 µg/m ³ to 400 µg/m ³
2	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Nitrogen Dioxide	IS 5182 (Part 6) : 2006: (RA 2012)	5.0 µg/m ³ to 100 µg/m ³
3	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Ozone as O ₃	SHE/SOP/09 Issue No/ Date: 01/01.11.2018: by CPCB Guidelines	20 µg/m ³ to 200 µg/m ³
4	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (size less than 10 µm) or PM ₁₀	IS 5182 (Part 23) : 2006: (RA 2012)	5.0 µg/m ³ to 500 µg/m ³
5	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Particulate Matter (size less than 2.5 µm) or PM _{2.5}	STE/SOP/04 Issue No./Date: 02/01.10.2016: by CPCB Guidelines	5.0 µg/m ³ to 100 µg/m ³
6	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Air	Sulphur Dioxide	IS 5182 (Part 2) : 2001: (RA 2012)	5.0 µg/m ³ to 80 µg/m ³
7	CHEMICAL-ATMOSPHERIC POLLUTION	Ambient Noise Levels	Ambient Noise Leq	IS 9989 : 1981: (RA 2008)	40 dB(A) to 125 dB(A)
8	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Acid Mist as H ₂ SO ₄	EPA Method 8: 2006	0.5 mg/Nm ³ to 50 mg/Nm ³
9	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Carbon Dioxide as CO ₂	SHE/SOP/11 Issue No/ Date: 01/01.11.2018: by Instrument Method	0.1 % to 15 %



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10	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Carbon monoxide as CO	SHE/SOP/11 Issue No / Date : 01/11/2018: by Instrument manual	0.1 % to 15 %
11	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Oxides of Nitrogen	SHE/SOP/03 Issue no: 02 Issue date:: 01/10/2016 by flue gas Analyser	5.0 mg/Nm ³ to 200 mg/Nm ³
12	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Oxygen as O ₂	SHE/SOP/11 Issue No /Date 01/01.11.2018: Instrument Method	0.1 % to 25 %
13	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Particulate Matter	IS:11255(Part1):1985: (RA 2014)	5.0 mg/Nm ³ to 150 mg/Nm ³
14	CHEMICAL-ATMOSPHERIC POLLUTION	Stack Emission	Sulphur Dioxide	SHE/SOP/03 Issue no: 02 Issue date: 01/10/2016: 2016	5.0 mg/Nm ³ to 200 mg/Nm ³
15	CHEMICAL-POLLUTION & ENVIRONMENT	Waste Water(Effluents/Sewage)	pH @ 25°C	APHA 23rd Edition 4500 – H ⁺ , B: (Electrometric Method): 2017	2.0 to 12
16	CHEMICAL-POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Carbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 100 mg/L
17	CHEMICAL-POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Oil & Grease	APHA 23rd Edition 5520 ,B: (Liquid-Liquid Partition Method): 2017	2.0 mg/L to 100 mg/L
18	CHEMICAL-POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Ammonical Nitrogen as NH ₃ -N	APHA 23rd Edition , 4500-NH ₃ -B And C (Titrimetric Method): 2017	1.0 mg/L to 100 mg/L



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19	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Biochemical Oxygen Demand@ 27°C for 3 days	IS 3025 (Part 44): 1993 (Wrinkler's Method): 2003	5.0 mg/L to 10000 mg/L
20	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Chemical Oxygen Demand	APHA 23rd Edition 5220 ,B: (Open reflux Method): 2017	10 mg/L to 15000 mg/L
21	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Chloride as Cl	APHA 23rd Edition 4500 – Cl-, B: (Argentometric Method): 2017	2.0 mg/L to 1000 mg/L
22	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Color	IS 3025 (Part 4) 1983 (Visual Comparison Method) : 2012	1.0 TCU to 50 TCU
23	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Conductivity @ 25°C	APHA 23rd Edition 2510, B: (Laboratory Method): 2017	10 µs/cm to 10000 µs/cm
24	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Fixed & volatile solids dried at 550°C	APHA 23rd Edition 2450-E : 2017	5.0 mg/L to 3000 mg/L
25	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Nitrite	APHA 23rd Edition , 4500-NO2-B (Colorimetric method) : 2017	1.0 mg/L to 10.0 mg/L
26	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Percent Sodium (%Na)	IS 11624 -1986 (Instrumentation, Titration followed by calculation): 2009	5.0 % to 60 %
27	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Phosphate as P	APHA 23rd Edition 4500-P-D (Stannous Chloride Method): 2017	0.1 mg/L to 10 mg/L



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28	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Potassium as K	APHA 23rd Edition 3500 K-B: (Flame photometric Method): 2017	2.0 mg/L to 500 mg/L
29	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Residual Free Chlorine as Cl ₂	APHA 23rd Edition 4500-Cl. B (Iodometric Method 1): 2017	1.0 mg/L to 10 mg/L
30	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Residual sodium carbonate	IS 11624 -1986 (Titrimetric method): 2009	0.1 meq/L to 10 meq/L
31	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Sodium as Na	APHA 23rd Edition 3500 Na: (Flame emission photometric Method): 2017	10 mg/L to 500 mg/L
32	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Sulfate as SO ₄	APHA 23rd Edition 4500-SO ₄ - ,E: (Turbidimetric Method): 2017	2.0 mg/L to 1000 mg/L
33	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Total Dissolved Solids dried at 180°C	APHA 23rd Edition 2540, C: 2017	5.0 mg/L to 5000 mg/L
34	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Total Kjeldahl Nitrogen	APHA 23rd Edition 4500-N-orgB (Macro Kjeldahl method): 2017	1.0 mg/L to 100 mg/L
35	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Total Nitrogen	APHA 23rd Edition , 4500-N- C (Per sulfate method): 2017	1.0 mg/l to 500 mg/l
36	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Total Suspended Solids dried at 105°C	APHA 23rd Edition 2540 ,D: 2017	10.0 mg/L to 1000 mg/L



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37	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Turbidity	APHA 23rd Edition 2130, B: (Nephelometric Method): 2017	0.1 NTU to 1000 NTU
38	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater (Effluents/ Sewage)	Odor	IS 3025 (Part 5):1983, : 2012	Qualitative(Agreeable/ Disagreeable)
39	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater(Effluents/ Sewage)	Acidity as Caco3	APHA 23rd Edition 2310-B (Titration method): 2017	2.0 mg/L to 200 mg/L
40	CHEMICAL- POLLUTION & ENVIRONMENT	Wastewater(Effluents/ Sewage)	Bicarbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 1000 mg/L
41	CHEMICAL- WATER	Drinking water	Acidity as Caco3	APHA 23rd Edition 2310-B (Titration method): 2017	2.0 mg/L to 100 mg/L
42	CHEMICAL- WATER	Drinking Water	Bicarbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 750 mg/L
43	CHEMICAL- WATER	Drinking Water	Boron as B	APHA 23rd Edition , 4500-B-B , (Curcumin method): 2017	0.1 mg/L to 10 mg/L
44	CHEMICAL- WATER	Drinking Water	Calcium as Ca	APHA 23rd Edition 3500 - Ca, B: (EDTA Titrimetric Method): 2017	2.0 mg/L to 750 mg/L
45	CHEMICAL- WATER	Drinking Water	Carbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 500 mg/L



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46	CHEMICAL- WATER	Drinking Water	Chloride as Cl	APHA 23rd Edition 4500 – Cl-, B:(Argentometric Method): 2017	2.0 mg/L to 1000 mg/L
47	CHEMICAL- WATER	Drinking Water	Colour	IS 3025 (Part 4) 1983 (Visual Comparison Method): 2012	1.0 TCU to 20 TCU
48	CHEMICAL- WATER	Drinking Water	Conductivity@ 25°C	APHA 23rd Edition 2510, B: (Laboratory Method): 2017	5.0 µs/cm to 4000 µs/cm
49	CHEMICAL- WATER	Drinking Water	Fluoride as F	APHA 23rd Edition 4500-F-, D (SPADNS Method): 2017	0.1 mg/L to 5.0 mg/L
50	CHEMICAL- WATER	Drinking Water	Iron as Fe	APHA 23rd Edition 3500-Fe ,B: (Phenanthroline Method): 2017	0.1 mg/L to 10 mg/L
51	CHEMICAL- WATER	Drinking Water	Magnesium as Mg	APHA 23rd Edition 3500 - Mg, B: (Calculation Method): 2017	2.0 mg/L to 750 mg/L
52	CHEMICAL- WATER	Drinking Water	Nitrate as NO3	APHA 23rd Edition , 4500-NO3 -E, (Cadmium Reduction method): 2017	0.1 mg/L to 100 mg/L
53	CHEMICAL- WATER	Drinking Water	Odor	IS 3025 Part 5:1983, : 2012	Qualitative(Agreeable/ Disagreeable)
54	CHEMICAL- WATER	Drinking water	pH@25°C	APHA 23rd Edition , 4500 – H+ B (Electrometric Method): 2017	2.0 to 12



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55	CHEMICAL- WATER	Drinking Water	Residual Free Chlorine as Cl ₂	APHA 23rd Edition 4500-Cl. B (Iodometric Method 1): 2017	0.1 mg/L to 50 mg/L
56	CHEMICAL- WATER	Drinking Water	Sulfate as SO ₄	APHA 23rd Edition 4500-SO ₄ 2-, E: (Turbidometric Method): 2017	2.0 mg/L to 500 mg/L
57	CHEMICAL- WATER	Drinking Water	Total Alkalinity as CaCO ₃	APHA 23rd Edition 2320, B: (Titrimetric Method): 2017	2.0 mg/L to 1500 mg/L
58	CHEMICAL- WATER	Drinking Water	Total Dissolved Solids @ 180 deg C	APHA 23rd Edition 2540, C : 2017	5.0 mg/L to 2000 mg/L
59	CHEMICAL- WATER	Drinking water	Total Hardness as CaCO ₃	APHA 23rd Edition 2340, C: (EDTA Titrimetric Method): 2017	2.0 mg/L to 3000 mg/L
60	CHEMICAL- WATER	Drinking Water	Total Suspended Solids @ 105 C	APHA 23rd Edition 2540, D: 2017	5.0 mg/L to 500 mg/L
61	CHEMICAL- WATER	Drinking water	Turbidity	APHA 23rd Edition 2130, B (Nephelometric Method): 2017	1.0 NTU to 100 NTU
62	CHEMICAL- WATER	Ground Water	Acidity as Caco3	APHA 23rd Edition 2310-B (Titration method): 2017	2.0 mg/L to 500 mg/L
63	CHEMICAL- WATER	Ground Water	Bicarbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 1000 mg/L
64	CHEMICAL- WATER	Ground water	Boron as B	APHA 23rd Edition , 4500-B-B , (Curcumin method): 2017	0.1 mg/L to 10 mg/L



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65	CHEMICAL- WATER	Ground Water	Calcium as Ca	APHA 23rd Edition 3500 - Ca, B: (EDTA Titrimetric Method): 2017	2.0 mg/L to 750 mg/L
66	CHEMICAL- WATER	Ground water	Carbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 750 mg/L
67	CHEMICAL- WATER	Ground Water	Chloride as Cl	APHA 23rd Edition 4500 - Cl-, B: (Argentometric Method): 2017	2.0 mg/L to 1000 mg/L
68	CHEMICAL- WATER	Ground Water	Color	IS 3025 (Part 4) 1983 (Visual Comparison Method): 2012	1.0 TCU to 20 TCU
69	CHEMICAL- WATER	Ground Water	Conductivity @ 25°C	APHA 23rd Edition 2510, B: (Laboratory Method): 2017	5.0 µs/cm to 4000 µs/cm
70	CHEMICAL- WATER	Ground Water	Fluoride as F	APHA 23rd Edition 4500-F-, D (SPADNS Method): 2017	0.1 mg/L to 5.0 mg/L
71	CHEMICAL- WATER	Ground Water	Iron as Fe	APHA 23rd Edition 3500-Fe ,B: (Phenanthroline Method): 2017	0.1 mg/L to 10 mg/L
72	CHEMICAL- WATER	Ground Water	Magnesium as Mg	APHA 23rd Edition 3500 - Mg, B: (Calculation Method): 2017	2.0 mg/L to 750 mg/L



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73	CHEMICAL- WATER	Ground Water	Nitrate as NO ₃	APHA 23rd Edition , 4500-NO ₃ -E, (Cadmium Reduction method): 2017	0.1 mg/L to 100 mg/L
74	CHEMICAL- WATER	Ground Water	Odor	IS 3025 Part 5:1983, : 2012	Qualitative(Agreeable/ Disagreeable)
75	CHEMICAL- WATER	Ground Water	pH @ 25°C	APHA 23rd Edition 4500 – H+ B: (Electrometric Method): 2017	2.0 to 12
76	CHEMICAL- WATER	Ground Water	Residual Free Chlorine as Cl ₂	APHA 23rd Edition 4500-Cl. B (Iodometric Method 1) : 2017	0.1 mg/L to 50 mg/L
77	CHEMICAL- WATER	Ground Water	Sulfate as SO ₄	APHA 23rd Edition 4500-SO ₄ -, E: (Turbidometric Method): 2017	2.0 mg/L to 500 mg/L
78	CHEMICAL- WATER	Ground Water	Total Alkalinity as CaCO ₃	APHA 23rd Edition 2320, B: (Titrimetric Method): 2017	2.0 mg/L to 1500 mg/L
79	CHEMICAL- WATER	Ground Water	Total Dissolved Solids dried at 180°C	APHA 23rd Edition 2540, C: 2017	5.0 mg/L to 2000 mg/L
80	CHEMICAL- WATER	Ground Water	Total Hardness as CaCO ₃	APHA 23rd Edition 2340, C: (EDTA Titrimetric Method): 2017	2.0 mg/L to 3000 mg/L
81	CHEMICAL- WATER	Ground Water	Total Suspended Solids dried at 105°C	APHA 23rd Edition 2540, D: 2017	5.0 mg/L to 500 mg/L



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82	CHEMICAL- WATER	Ground water	Turbidity	APHA 23rd Edition 2130, B: (Nephelometric Method): 2017	1.0 NTU to 100 NTU
83	CHEMICAL- WATER	Surface Water	Acidity as Caco3	APHA 23rd Edition 2310-B (Titration method): 2017	2.0 mg/L to 500 mg/L
84	CHEMICAL- WATER	Surface Water	Bicarbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2.0 mg/L to 1000 mg/L
85	CHEMICAL- WATER	Surface water	Boron as B	APHA 23rd Edition , 4500-B-B , (Curcumin method): 2017	0.1 mg/L to 10 mg/L
86	CHEMICAL- WATER	Surface water	Calcium as Ca	APHA 23rd Edition 3500 - Ca, B: (EDTA Titrimetric Method): 2017	2.0 mg/L to 750 mg/L
87	CHEMICAL- WATER	Surface Water	Carbonate	APHA 23rd Edition 2320-B (Titration method): 2017	2 mg/L to 750 mg/L
88	CHEMICAL- WATER	Surface water	Chloride as Cl	APHA 23rd Edition 4500 - Cl-, B: (Argentometric Method): 2017	2.0 mg/L to 1000 mg/L
89	CHEMICAL- WATER	Surface Water	Color	IS 3025 (Part 4) 1983 , (Visual Comparison Method): 2012	1.0 TCU to 20 TCU
90	CHEMICAL- WATER	Surface water	Conductivity @ 25°C	APHA 23rd Edition 2510, B: (Laboratory Method): 2017	5.0 µs/cm to 4000 µs/cm



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91	CHEMICAL- WATER	Surface water	Fluoride as F	APHA 23rd Edition 4500-F-, D (SPADNS Method): 2017	0.1 mg/L to 5.0 mg/L
92	CHEMICAL- WATER	Surface water	Iron as Fe	APHA 23rd Edition 3500-Fe ,B: (Phenanthroline Method): 2017	0.1 mg/L to 10 mg/L
93	CHEMICAL- WATER	Surface water	Magnesium as Mg	APHA 23rd Edition 3500 - Mg, B: (Calculation Method): 2017	2.0 mg/L to 750 mg/L
94	CHEMICAL- WATER	Surface water	Nitrate as NO ₃	APHA 23rd Edition , 4500-NO ₃ -E, (Cadmium Reduction method): 2017	0.1 mg/L to 100 mg/L
95	CHEMICAL- WATER	Surface water	Odor	IS 3025 Part 5:1983, : 2002	Qualitative(Agreeable/ Disagreeable)
96	CHEMICAL- WATER	Surface water	pH @ 25°C	APHA 23rd Edition 4500 – H+ B: (Electrometric Method): 2017	2.0 to 12
97	CHEMICAL- WATER	Surface water	Residual Free Chlorine as Cl ₂	APHA 23rd Edition 4500-Cl. B (Iodometric Method 1) : 2017	0.1 mg/L to 50 mg/L
98	CHEMICAL- WATER	Surface water	Sulfate as SO ₄	APHA 23rd Edition 4500-SO ₄ 2-, E:(Turbidometric Method): 2017	2.0 mg/L to 500 mg/L
99	CHEMICAL- WATER	Surface water	Total Alkalinity as CaCO ₃	APHA 23rd Edition 2320, B: (Titrimetric Method): 2017	2.0 mg/L to 1500 mg/L



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100	CHEMICAL- WATER	Surface water	Total Dissolved Solids dried at 180 C	APHA 23rd Edition 2540, C: 2017	5.0 mg/L to 2000 mg/L
101	CHEMICAL- WATER	Surface Water	Total Hardness as CaCO ₃	APHA 23rd Edition 2340, C: (Titrimetric Method): 2017	2.0 mg/L to 3000 mg/L
102	CHEMICAL- WATER	Surface water	Total Suspended Solids dried 105 C	APHA 23rd Edition 2540, D: 2017	5.0 mg/L to 500 mg/L
103	CHEMICAL- WATER	Surface water	Turbidity	APHA 23rd Edition 2130, B: (Nephelometric Method): 2017	1.0 NTU to 100 NTU